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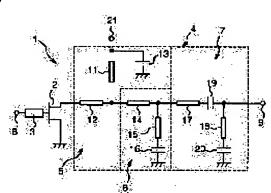
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(54) HIGH FREQUENCY POWER AMPLIFIER

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the high frequency power amplifier with an improved efficiency by decreasing its power loss. SOLUTION: Each length of a drain bias line 11 and signal lines 12, 14, 15 is selected so that an output matching circuit 4 acts like an open load with respect to a second harmonic and like a short-circuit load with respect to a third harmonic, for example, a phase of an S11 of an S parameter with respect to the second harmonic ranges between -80°C and 140°C and a phase of an S11 of an S parameter with respect to the third harmonic ranges between 160° and 220°. Furthermore, the length of each line is adjusted so that a phase of an S22 of an S parameter with respect to the fundamental wave in an input matching circuit 3 is shifted by a phase of +5° to -75° from a point at which a maximum gain is obtained.



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